## LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A rotor for generating vortex water flow, comprising: A filtering apparatus comprising:

<u>a barrel having a water inflow port, a processed water discharge port, and a condensed water discharge port;</u>

at least one of rotor for generating vortex water flow disposed in the barrel, comprising:
a plurality of first blades extended in a radial direction from a rotational axis thereof; and
a plurality of second blades extended in the radial direction from the rotational axis, and
disposed at positions different from positions of the first blades in a direction of the rotational
axis, and

one or a plurality of filter tray disposed alternatively with the rotors in the barrel.

- 2. (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 1, wherein the first blades and the second blades have widths different from each other in a circumferential direction around the rotational axis
- **3.** (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 2, wherein the first blades and the second blades are so disposed as to be overlapped with each other.
- **4. (Currently Amended)** The <u>rotor filtering apparatus</u> as claimed in claim 1, wherein the first blades and the second blades are disposed at positions different from each other in a circumferential direction around the rotational axis.
- 5. (Currently Amended) The rotor filtering apparatus as claimed in claim 4, wherein the first blades and the second blades are partially overlapped with each other.

- **6. (Currently Amended)** The rotor <u>filtering apparatus</u> as claimed in claim 4, wherein the first blades and the second blades are distanced from each other in the circumferential direction.
- 7. (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 6, wherein the first blades and the second blades are so disposed as to be distanced equally from each other in the circumferential direction.
- **8.** (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 4, further comprising at least one of protrusion attached on outer surfaces of the first blades and/or second blades.
- **9.** (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 8, wherein the protrusion is so formed as to have width varying in the circumferential direction.
- 10. (Currently Amended) The rotor filtering apparatus as claimed in claim 9, wherein the protrusion is so formed as to have streamlined width in the circumferential direction.
- 11. (Currently Amended) The rotor filtering apparatus as claimed in claim 10, wherein the protrusion is so formed as to have a rear shape curved rearward in the circumferential direction.
- 12. (Currently Amended) The rotor filtering apparatus as claimed in claim 9, wherein the protrusion is so formed as to have a horizontal cross section of circle shape substantially.
- 13. (Currently Amended) The rotor filtering apparatus as claimed in claim 7, wherein a plurality of protrusions are respectively attached between the first blades and the second blades, and sizes of the protrusions become greater gradually in the radial direction.

- 14. (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 4, wherein the first blades and the second blades have widths same with each other in the circumferential direction.
- 15. (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 4, wherein the first blades and the second blades are disposed alternately in the circumferential direction.
- 16. (Currently Amended) The rotor filtering apparatus as claimed in claim 1, wherein the first blades and the second blades are disposed so that at least a part thereof are overlapped with each other in the rotational axis direction and are disposed so as to be distanced from each other in a the rotational axis direction, and

at least one of protrusion is disposed between the first blades and the second blades.

- 17. (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 16, wherein the protrusion is so formed as to have width varying in the circumferential direction.
- **18.** (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 17, wherein the protrusion is so formed as to have streamlined width in the circumferential direction.
- 19. (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 18, wherein the protrusion is so formed as to have a rear shape curved rearward in the circumferential direction.
- **20.** (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 17, wherein the protrusion is so formed as to have a horizontal cross section of circle shape substantially.

- 21. (Currently Amended) The rotor filtering apparatus as claimed in claim 16, wherein a plurality of protrusions are respectively attached between the first blades and the second blades, and sizes of the protrusions become greater gradually in the radial direction.
- **22.** (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 1, further comprising:
- a first ring formed integrally with the first blades and disposed coaxially with the rotational axis; and
- a second ring formed integrally with the second blades and disposed coaxially with the rotational axis.
- **23.** (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 22, wherein the first ring and the second ring have radiuses different from each other.
- **24.** (Currently Amended) The rotor filtering apparatus as claimed in claim 1, further comprising a first rotor equipped with the first blades, and a second rotor equipped with the second blades;

wherein the first rotor and the second rotor are attached to each other.

**25.** (Currently Amended) The rotor <u>filtering apparatus</u> as claimed in claim 1, further comprising a first rotor equipped with the first blades, and a second rotor equipped with the second blades;

wherein the first rotor and the second rotor are formed in a body.

## 26. (Canceled)

**27.** (Currently Amended) The filtering apparatus as claimed in claim [[26]]  $\underline{1}$ , wherein the filter tray is fixed in the barrel.

- **28.** (Currently Amended) The filtering apparatus as claimed in claim [[26]] 1, wherein the filter tray has at least one of water passage port so formed as to penetrate a plane thereof.
- **29. (Original)** The filtering apparatus as claimed in claim 28, wherein the filter tray includes a supporting plate having a disk shape, a drain cloth attached on both surface of the supporting plate, and a separation membrane attached to an outer surface of the drain cloth.
- **30. (Original)** The filtering apparatus as claimed in claim 29, wherein the drain cloth and the separation membrane are adhered onto the supporting plate with thermosetting adhesive.